**Data used in the tutorial**

Tutorials require data to be loaded. This needs to be streamlined for fast response times.

Learnr has some features and limitations regarding data:

+ Learnr allows for a `context=”data”` chunk which can do pre-processing for us

- Learnr cannot access all package files (for security reasons)

How can we let users load their data?

1. Install the data with the package, so it can be called, like `mtcars` (this works only for single objects, like a dataframe)
2. Install the data with the package, and access it with system.file() (can be used to store an .Rdata file, which can contain many objects)
3. Host the data online, on
   1. Github
   2. CN45 (on a web-accessible locations)
4. Keep it in an accessible folder on the same server as the tutorials.

If we want students to use the load data functions, then we need options 3 or 4. For portability, we’d want options 1 or 2.

Option 1

To install data in the tutorial package, we can use `usethis::use\_data()`. This will store any R object in `data/object.rda`. Downside is it stores *single* objects, not Rdata files.

Option 2

I’ve added function prep\_week2 to learnr.proto which compiles the files that Christ uses into a single .Rdata object, week2.Rdata, which is then loaded at the start of the tutorial. This is meant as a how-to example, but can be used to load the files/objects every user will need for any tutorial.

Option 3

Christ already used this for a fastqc file. Works nicely! Github does have a data limit per repo however.

Option 4

Would work, but non-portable. Then again, the R libraries need to be installed and made accessible too.